





How much potassium is in you?

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Humans are 60% water

70 kg man x 60% is 42 liters of water

Intracellular potassium

70 kg man x 60% is 42 liters of water

²/₃ of total body water is intracellular

The intracellular K⁺ is 140 mmol/L

42 liters × ¾ × 140 = 3,920 mmol of intracellular K+

Extracellular potassium

70 kg man x 60% is 42 liters of water

1/3 of total body water is extracellular



The extracellular K⁺ is 4 mmol/L

42 liters $\times \frac{1}{3} \times 4 = 56$ mmol of extracellular K⁺

How much potassium is in you?

intracellular potassium: 3,920 mmol

extracellular potassium: 56 mmol

total body potassium: 3,976 mmol



How much potassium is in you?

extracellular potassium: 56 mmol

total body potassium: 3,976 mmol

1.4%



How much potassium is in you?

total body potassium: 3,976 mmol extracellular potassium: 56 mmol plasma potassium: (12)mmol



The plasma has 12 mmol of K⁺

1 cup of white beans 25 mmol of potassium

1 cup of cooked spinach has 20 mmol of potassium

1 baked potato has 23 mmol of potassium



A banana has 1 mmol of potassium per inch